

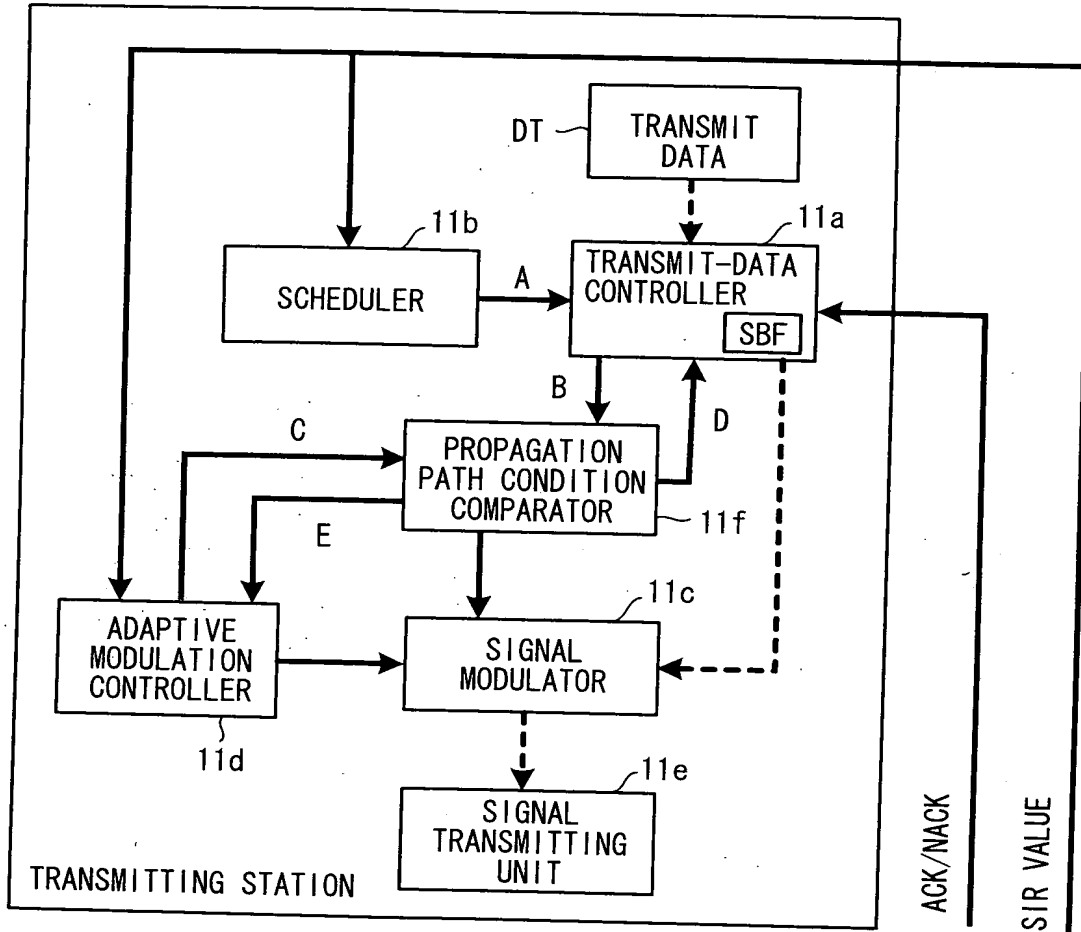
FIG. 1

FIG. 2

USER	PACKET NO.	MODULATION PARAMETER	PACKET DATA
USER 1	P11	16QAM	...
	P12	4QAM (QPSK)	...

USER 2	P21
	P22

⋮	⋮	⋮	⋮

FIG. 3

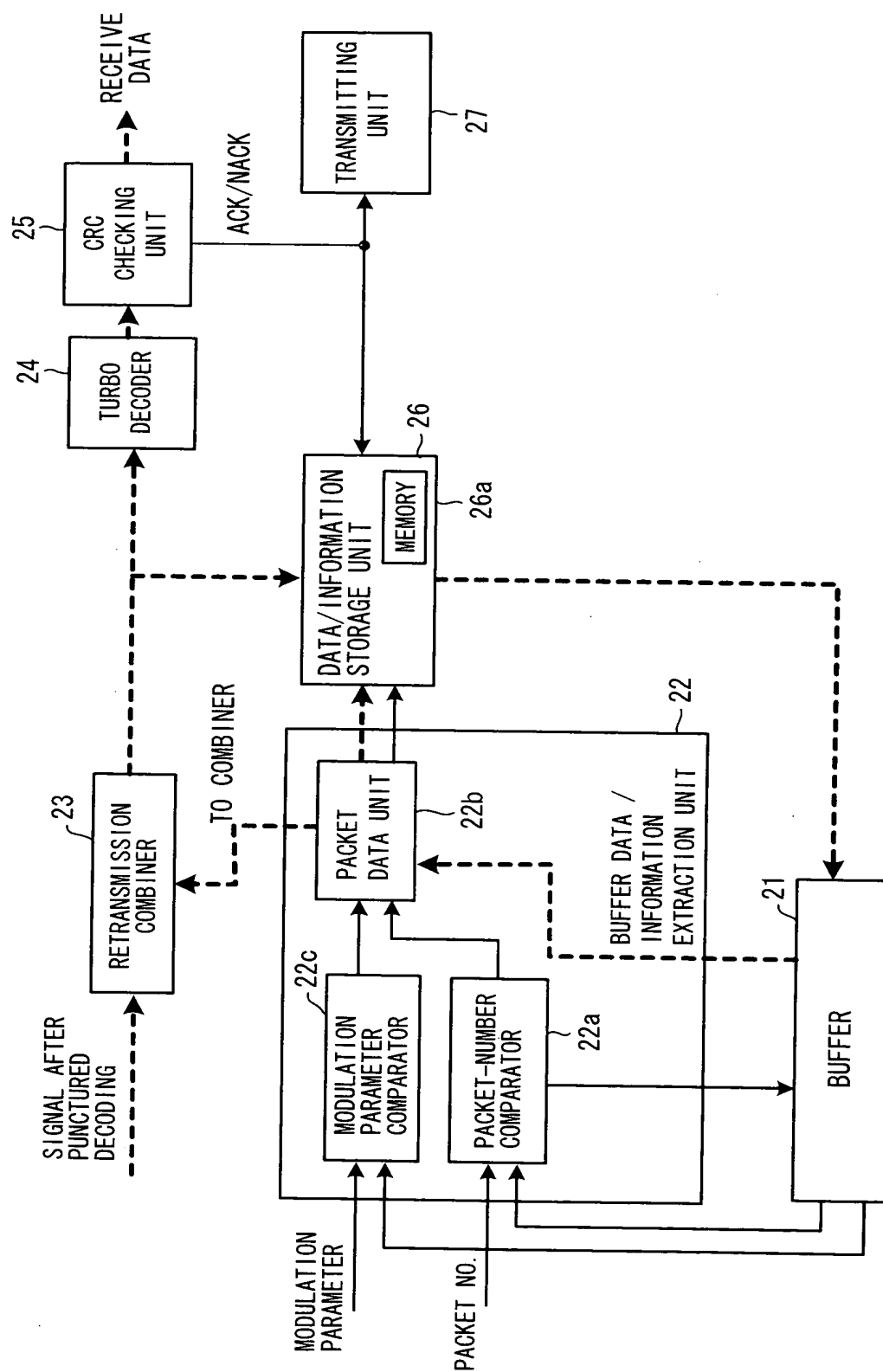


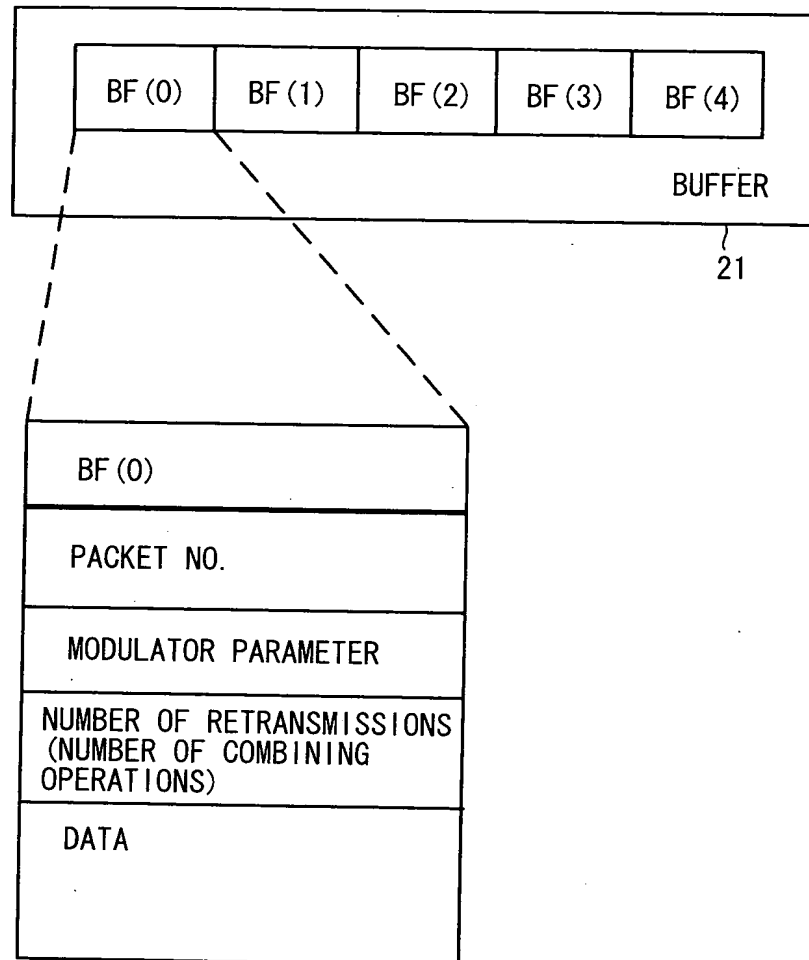
FIG. 4

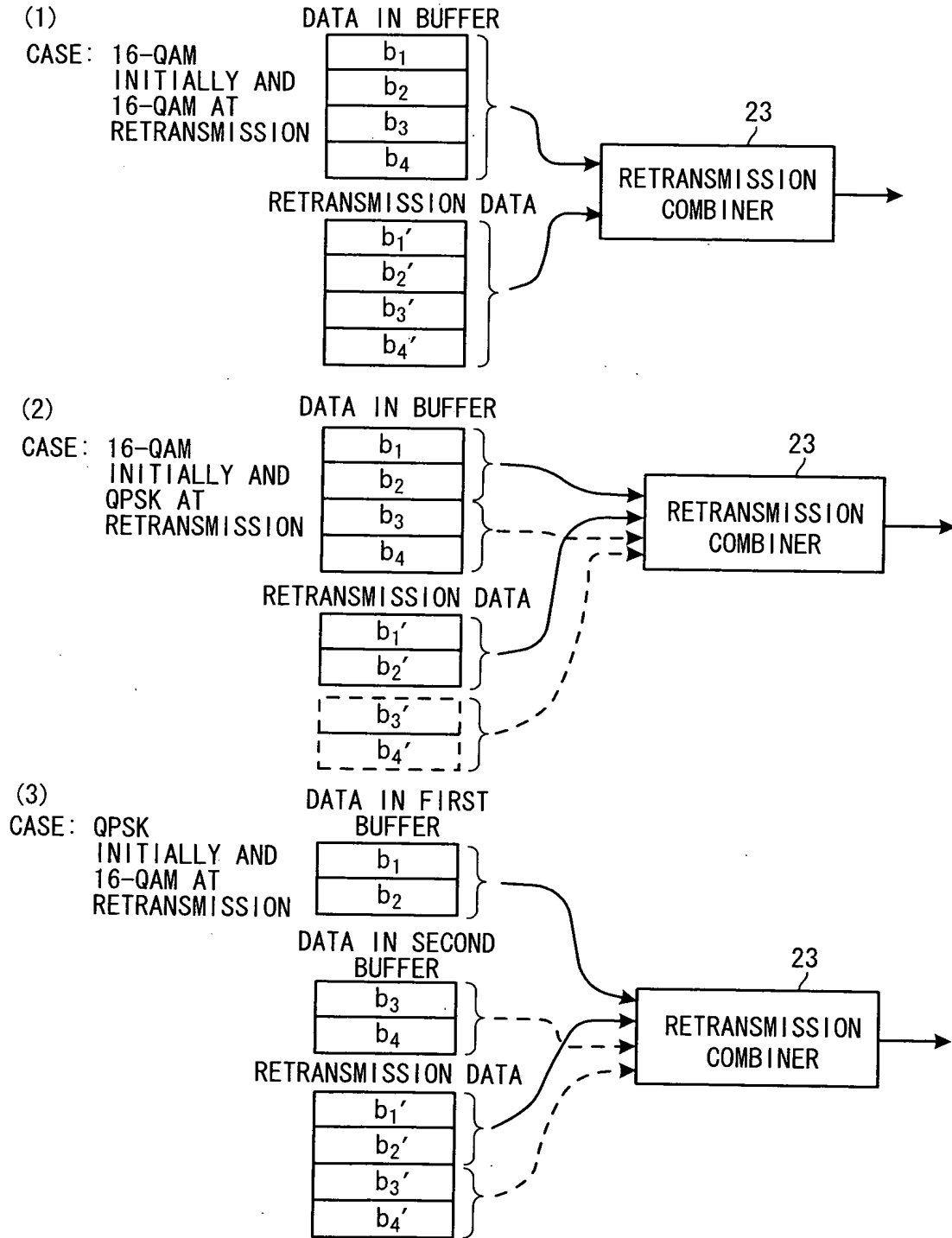
FIG. 5

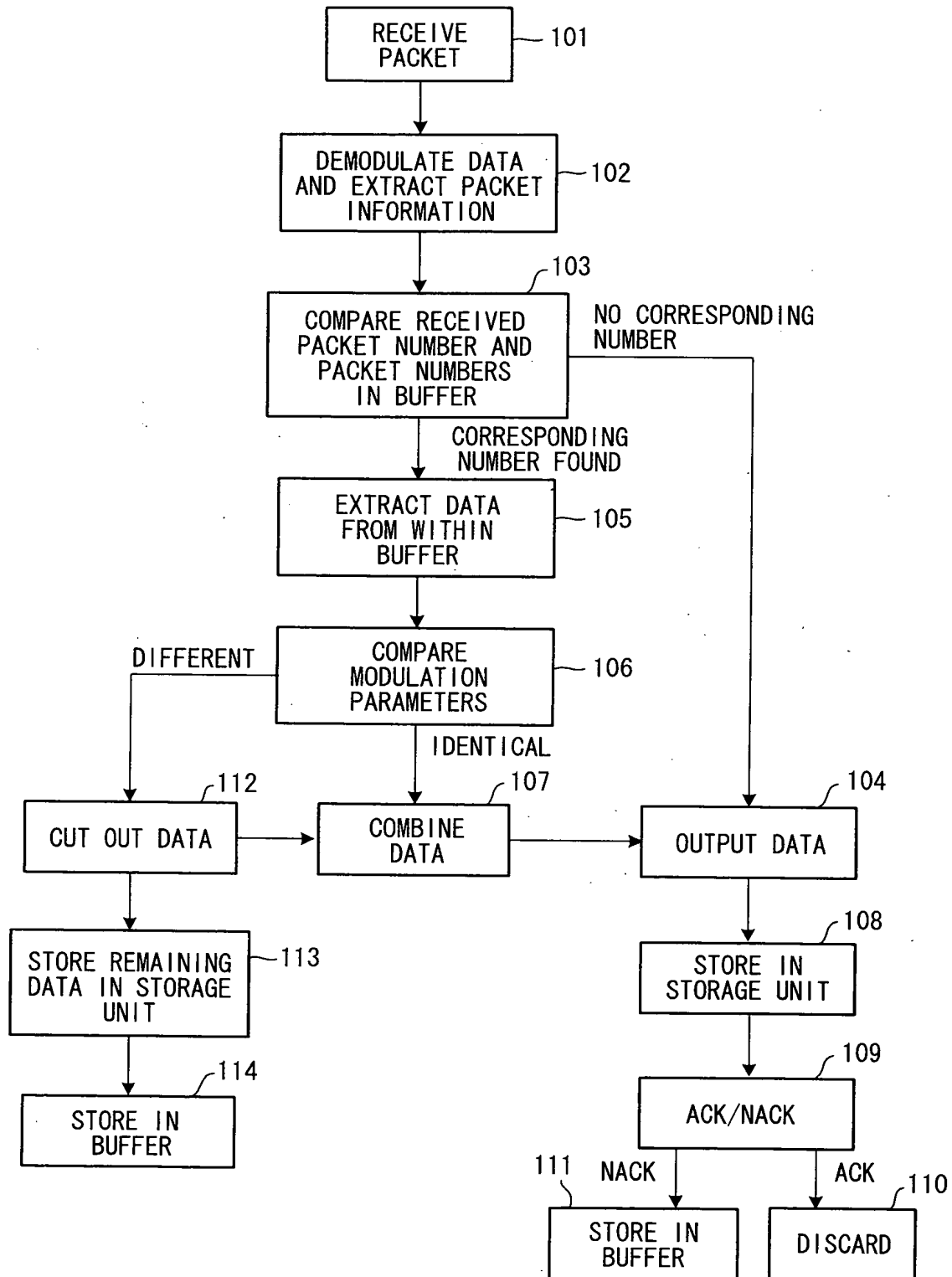
FIG. 6

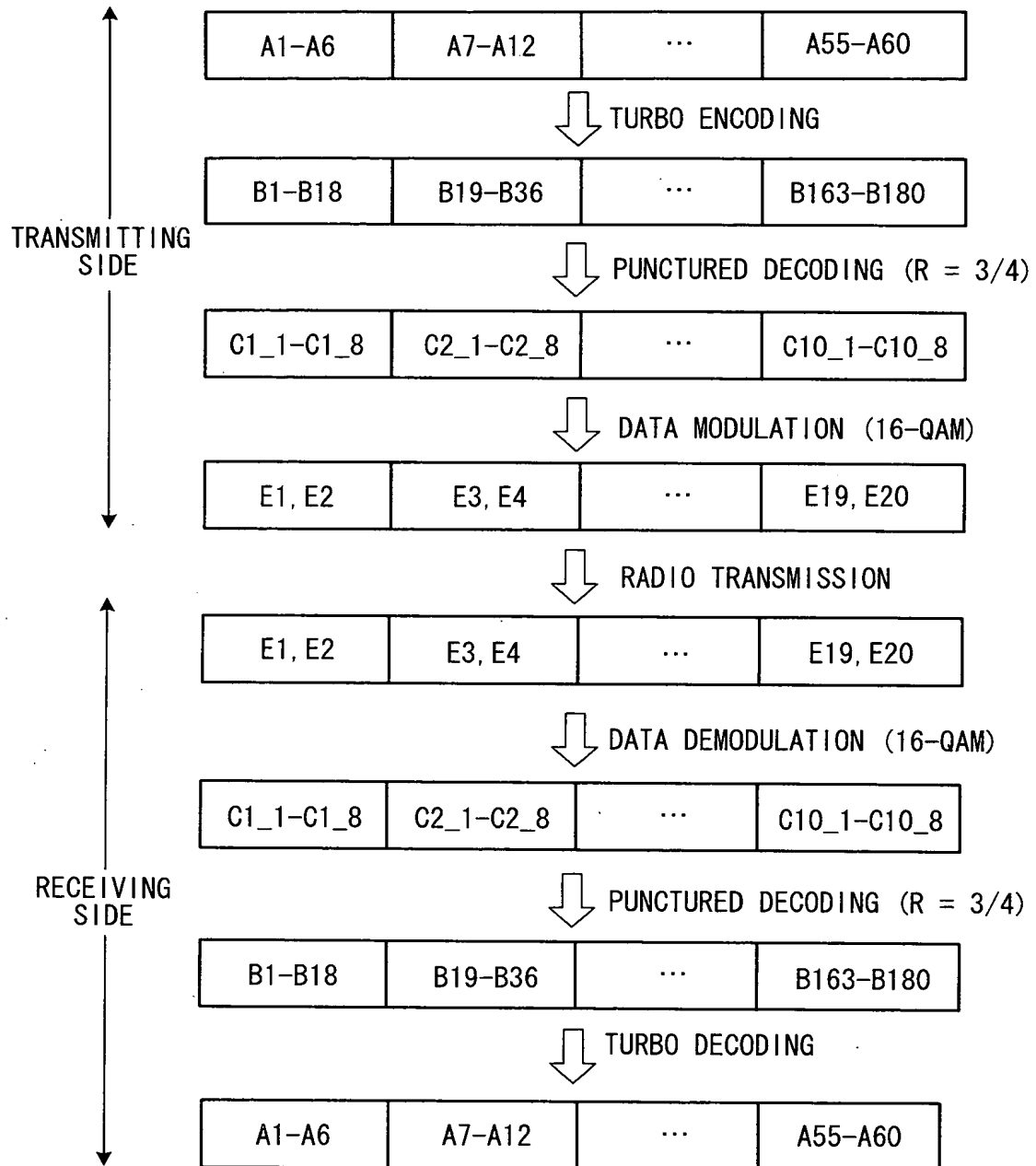
FIG. 7

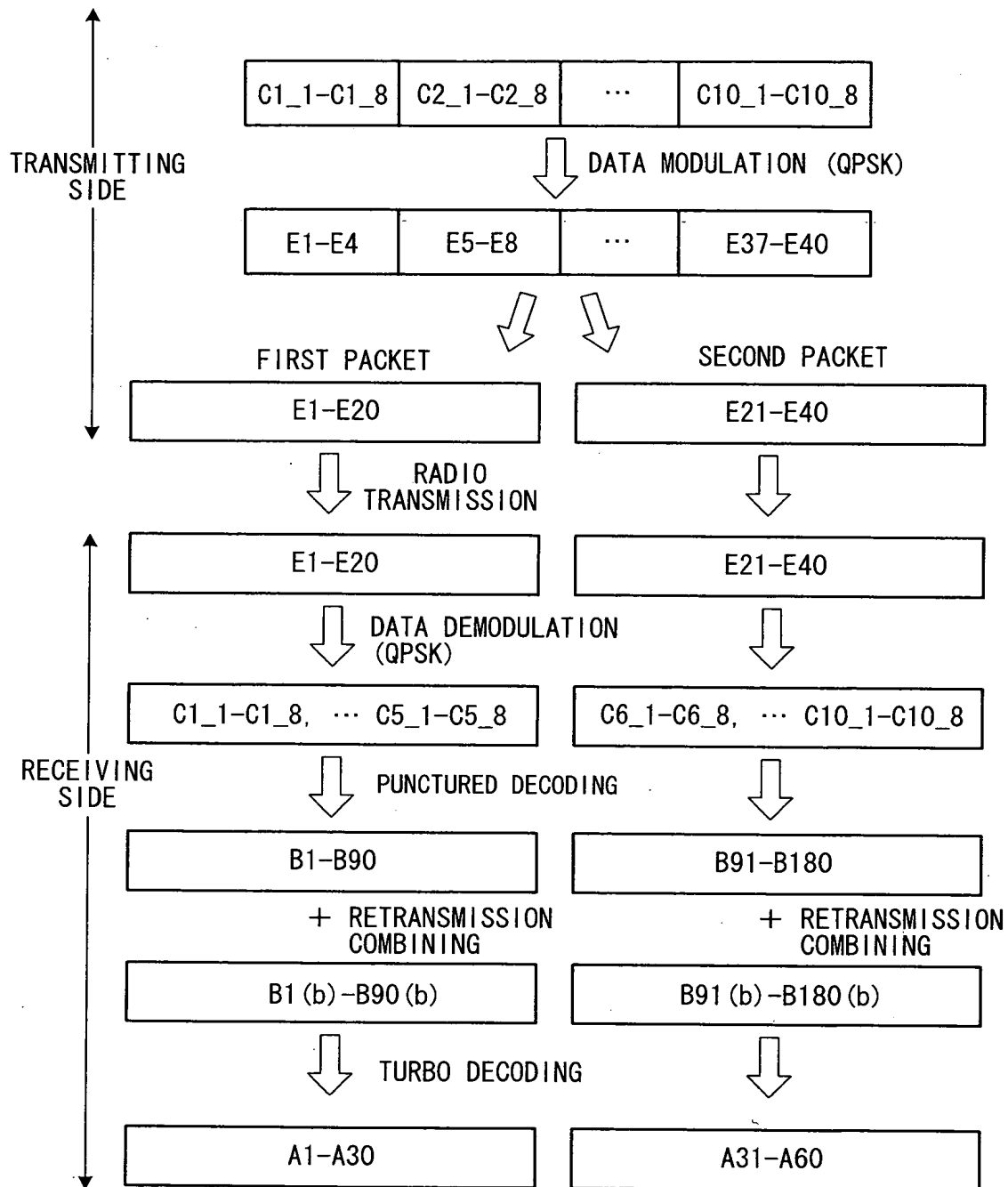
FIG. 8

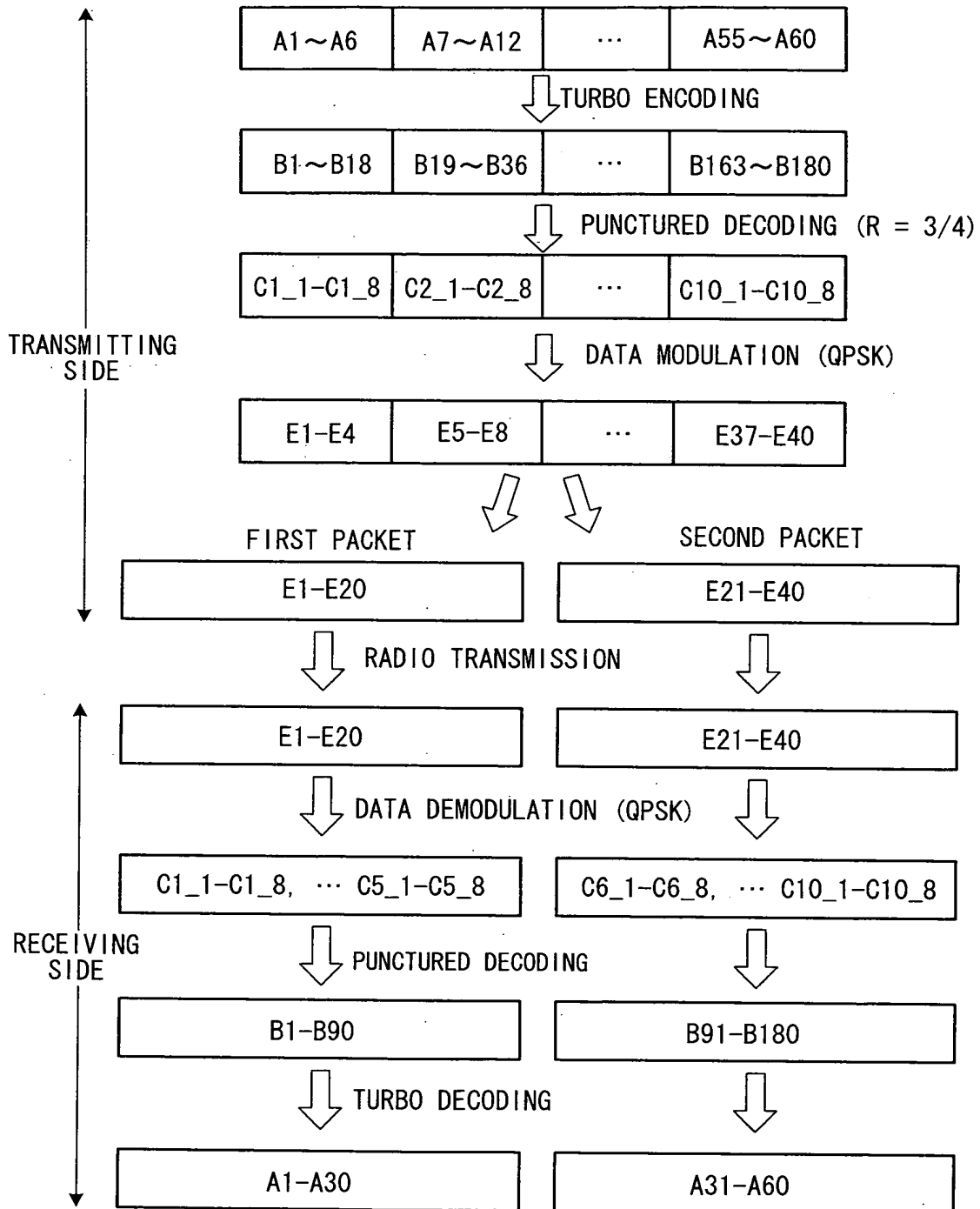
FIG. 9

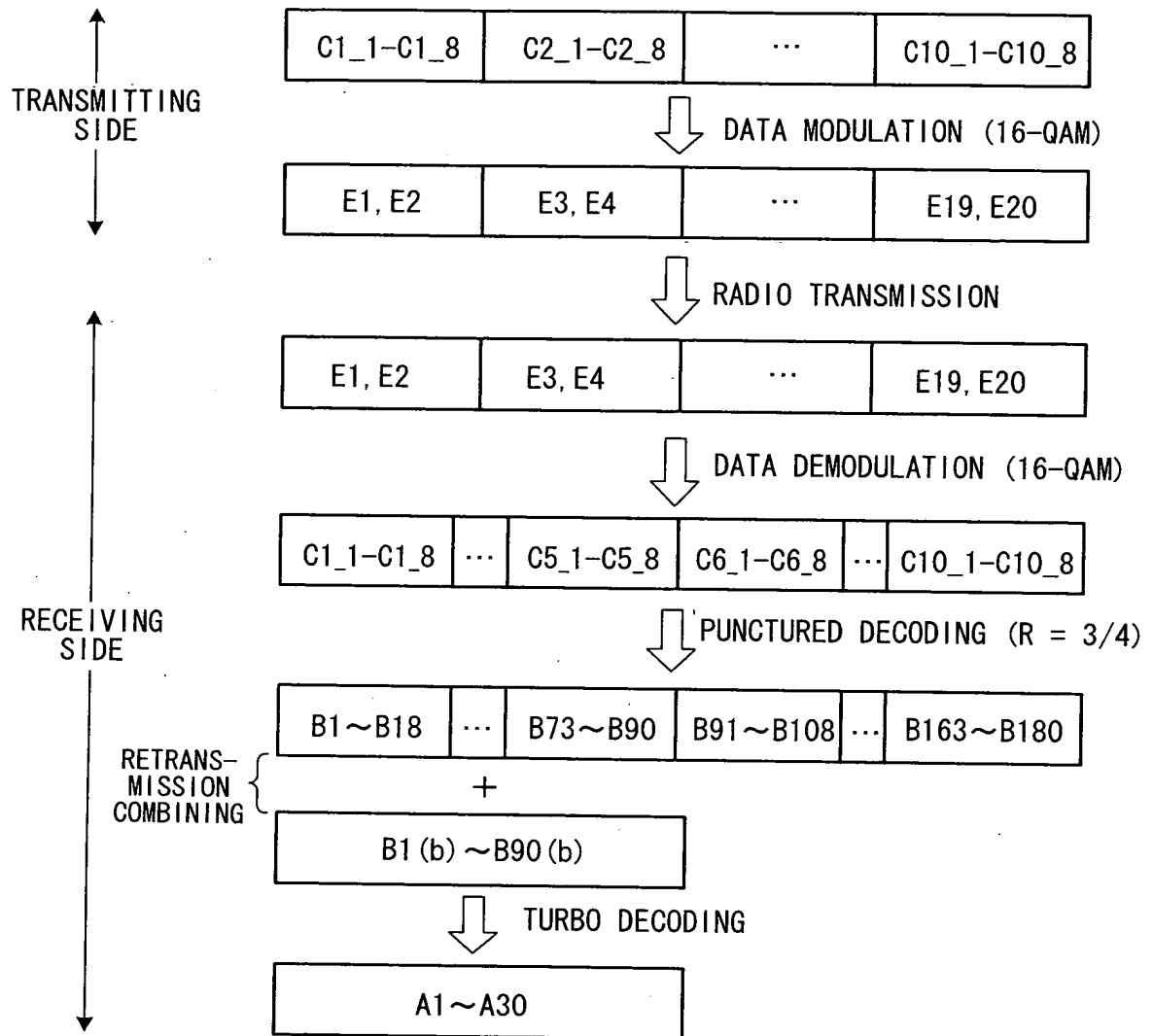
FIG. 10

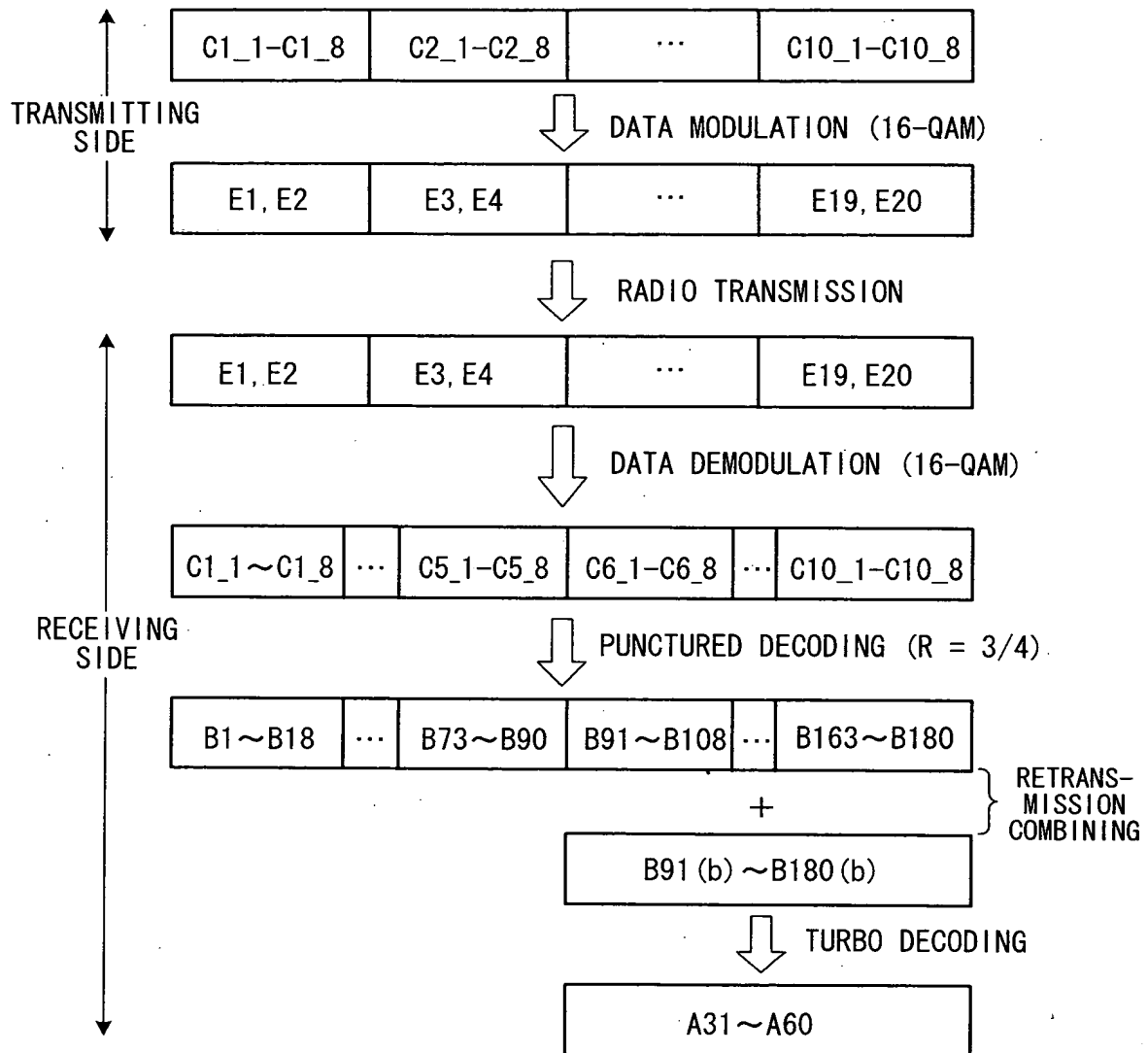
FIG. 11

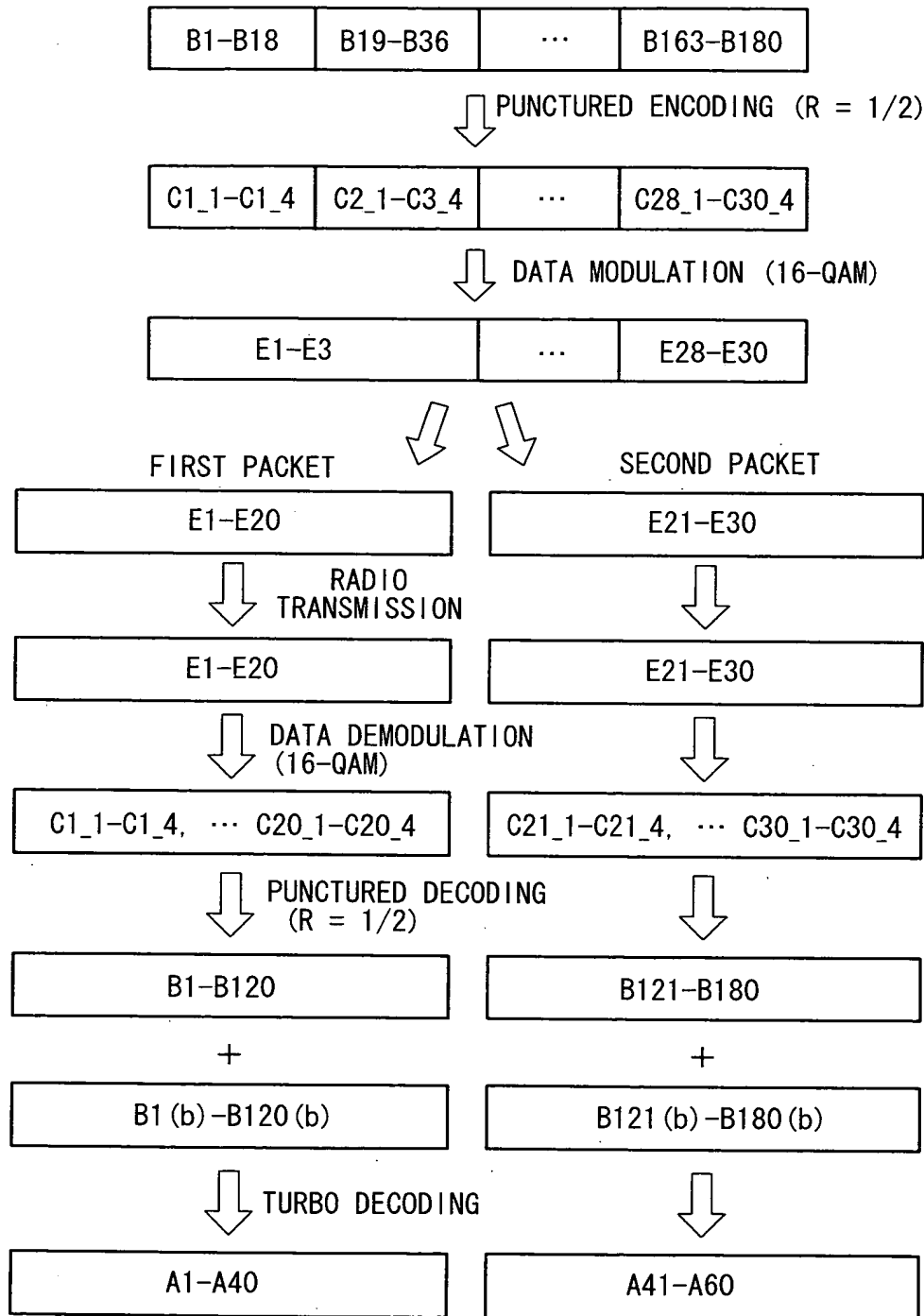
FIG. 12

FIG. 13

C1	C2	C3	C4	C5	C6	C7	0	0	...
+	+	...							
D1	D2	D3	0	0	D4	D1	D2	D3	...
×	×	...							
1/2	1/2	1/2	1	1	1/2	1/2	1	1	
		...							
B1 (b)	B2 (b)	B3 (b)	B4 (b)	B5 (b)	B6 (b)	B7 (b)	B8 (b)	B9 (b)	...

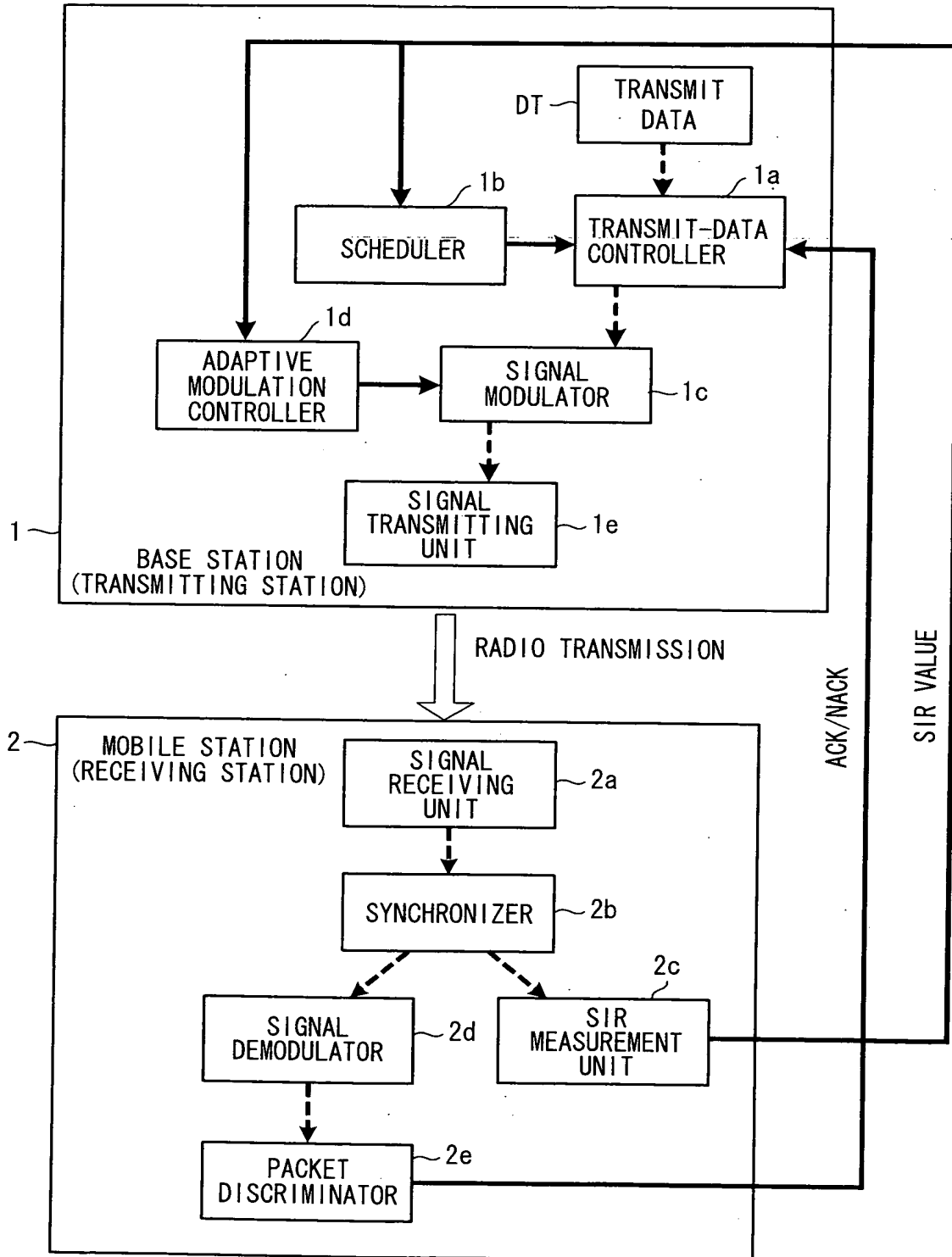
FIG. 14 PRIOR ART

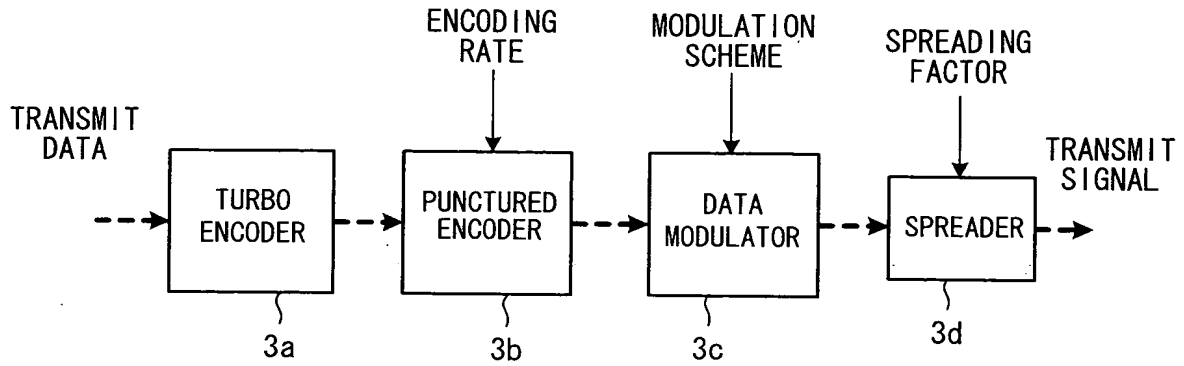
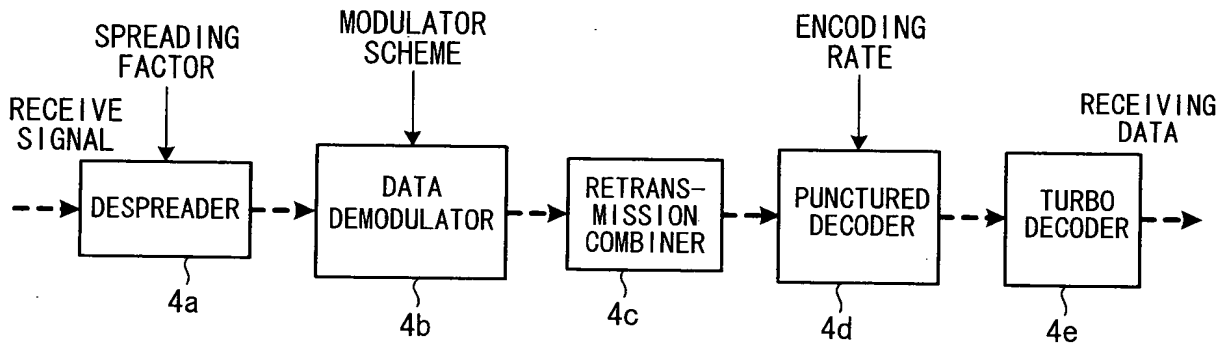
FIG. 15 PRIOR ART**FIG. 16 PRIOR ART**

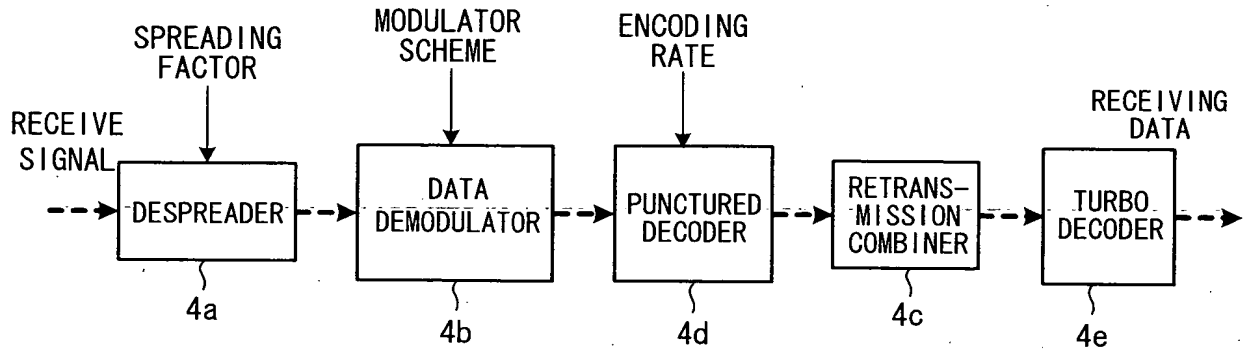
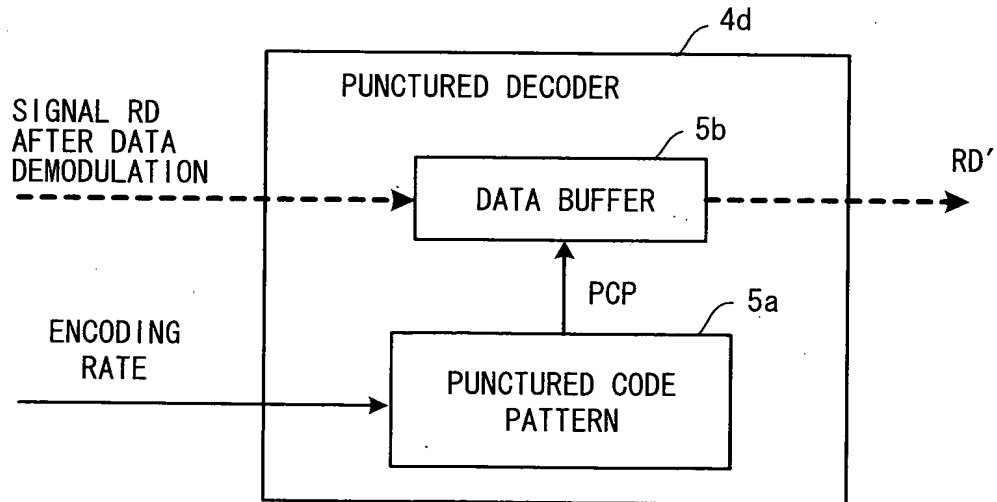
FIG. 17 PRIOR ART**FIG. 18 PRIOR ART**

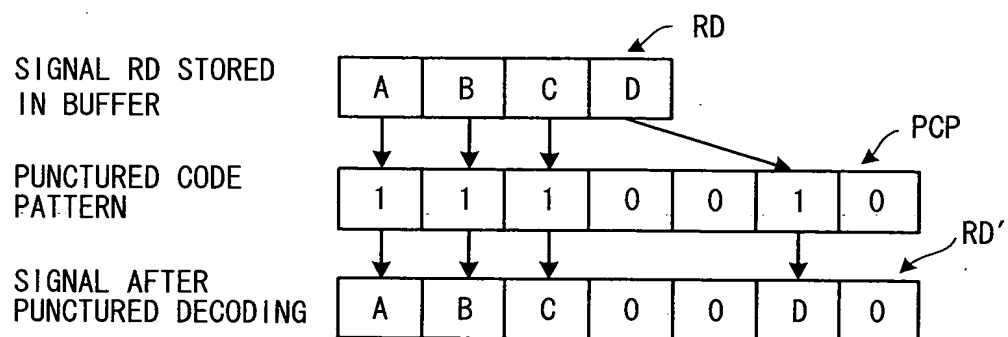
FIG. 19

FIG. 20 PRIOR ART

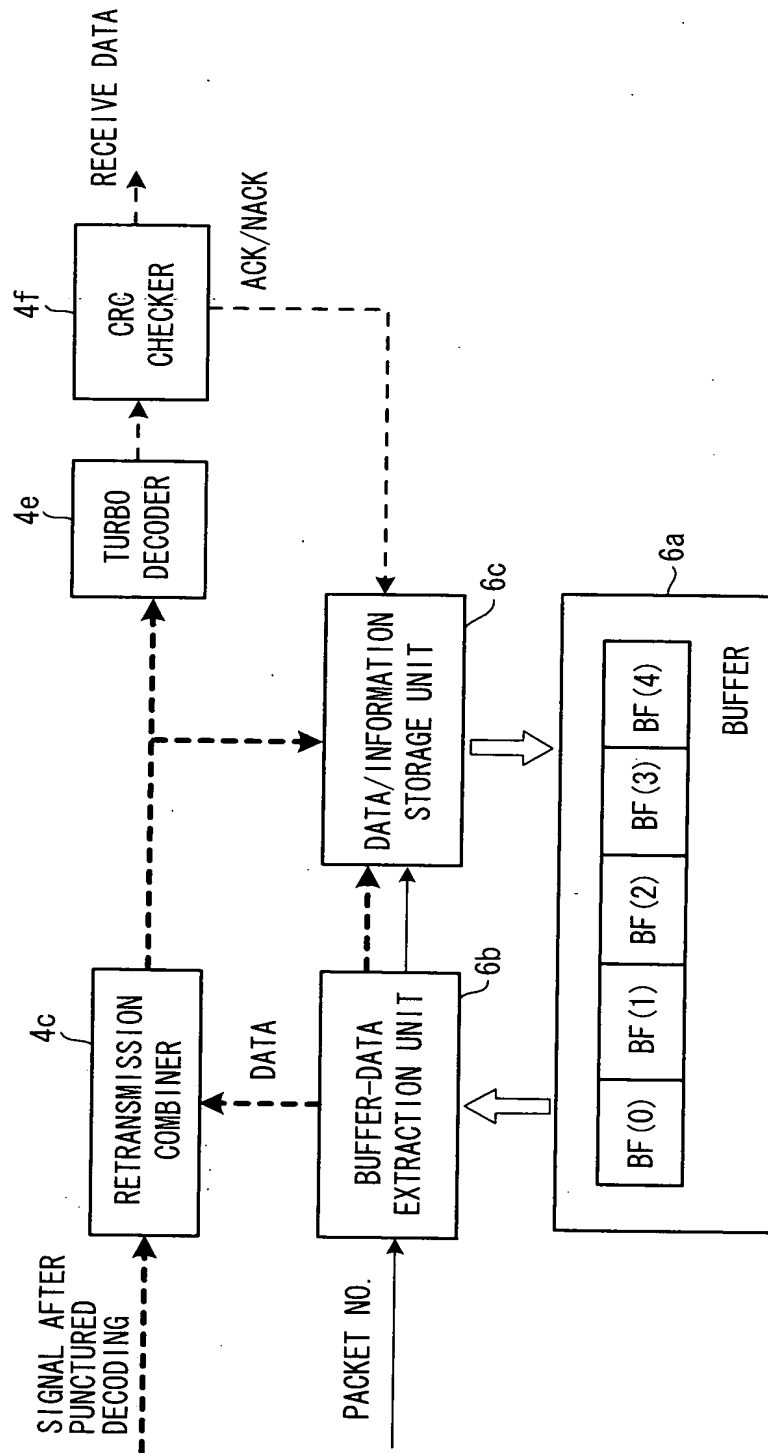


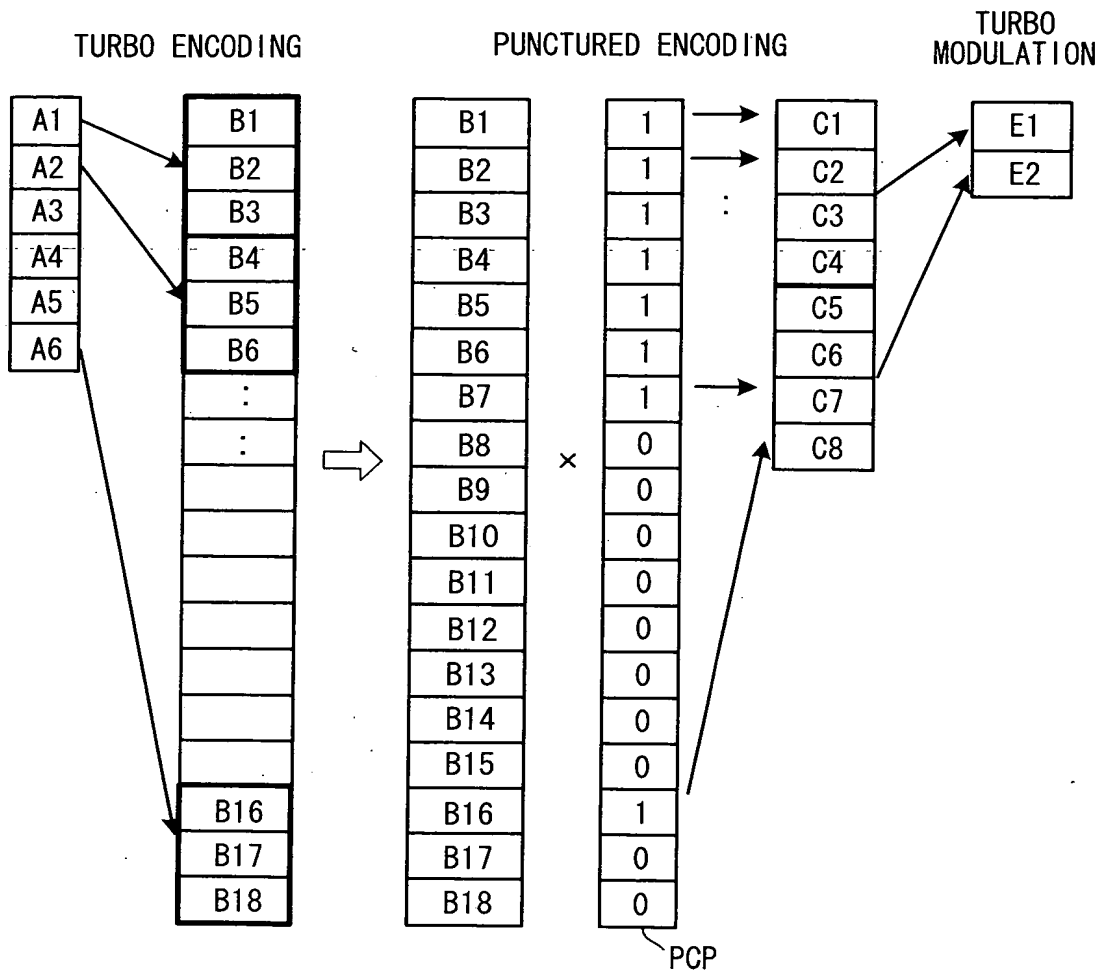
FIG. 21 PRIOR ART

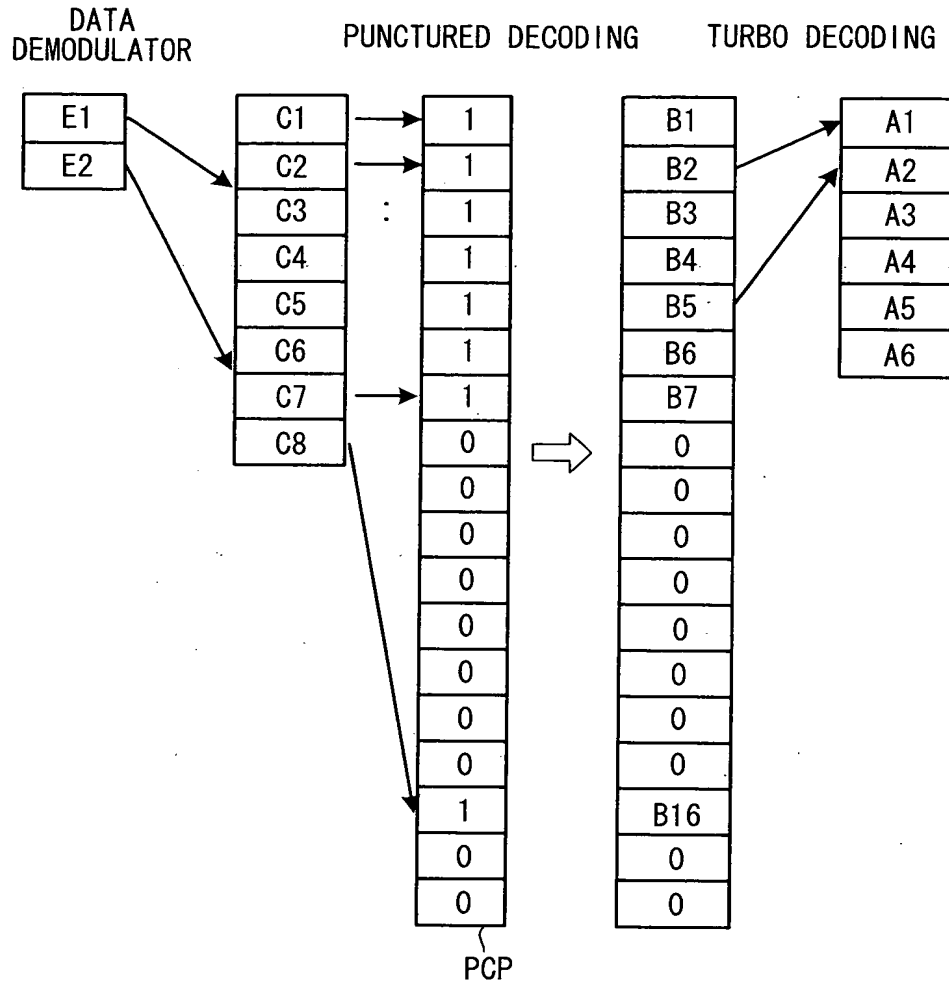
FIG. 22 PRIOR ART

FIG. 23A PRIOR ART

C1	C2	C3	C4	C5	C6	C7	C8
+	+	...					
C1 (b)	C2 (b)	C3 (b)	C4 (b)	C5 (b)	C6 (b)	C7 (b)	C8 (b)

6a



PUNCTURED DECODING

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18
C1	C2	C3	C4	C5	C6	C7	0	0	0	0	0	0	0	0	C8	0	0

FIG. 23B PRIOR ART

C1	C2	C3	C4	...	0	0	C8	0	0
+	+	...							
B1 (b)	B2 (b)	B3 (b)	B4 (b)	...	B14 (b)	B15 (b)	B16 (b)	B17 (b)	B18 (b)

FIG. 24A PRIOR ART

C1	C2	C3	C4	C5	C6	C7	C8
+	+	...					
C1 (b1)	C2 (b1)	C3 (b1)	C4 (b1)	C5 (b1)	C6 (b1)	C7 (b1)	C8 (b1)

~ 6a-1

D1	D2	D3	D4	D5	D6	D7	D8
+	+	...					
D1 (b2)	D2 (b2)	D3 (b2)	D4 (b2)	D5 (b2)	D6 (b2)	D7 (b2)	D8 (b2)

~ 6a-2



PUNCTURED DECODING

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18
C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	0	D5	D6	0	C8	D7	D8

FIG. 24B PRIOR ART

C1	C2	C3	C4	...	0	0	C8	0	0
+	+	...	+				+		
B1 (b)	B2 (b)	B3 (b)	B4 (b)	...	B14 (b)	B15 (b)	B16 (b)	B17 (b)	B18 (b)

~ 6a

0	0	...	0	D5	D6	0	0	D7	D8
+	+	...					+	+	
B1 (b)	B2 (b)	...	B12 (b)	B13 (b)	B14 (b)	B15 (b)	B16 (b)	B17 (b)	B18 (b)

~ 6a

FIG. 25 PRIOR ART

(a)

1
1
1
1
1
1
1
1
0
0
0
0
0
0
0
0
0
1
0
0

PCP

(b)

0
0
0
0
0
0
0
0
1
1
1
1
0
1
1
0
0
1
1

PCP'